US ERA ARCHIVE DOCUMENT

Last Update on February 23, 1990

[V] = Validated Study [S] = Supplemental Study [U] = USDA Data

```
Common Name: MYCLOBUTANIL
Smiles Code:
                                                     Caswell #:
PC Code # :128857
                         CAS #:88671-89-0
Chem. Name \alpha-BUTYL-\alpha-(4-CHLOROPHENYL)-1H-1,2,4-TRIAZOLE-1-PROPANE-
            NITRILE
Action Type:FUNGICIDE
Trade Names: SYSTANE 40W; RH-3866
(Formul'tn):40 WP
Physical State:
    Use
Patterns
 (% Usage) :
                  C_{15}H_{17}N_4C1
Empirical Form:
                                      Vapor Pressure:
                                                         1.60E -6 Torr
Molecular Wqt.:
                          288.78
                                                                 °C
Melting Point:
                             °C
                                       Boiling Point:
                                                  pKa:
                                                                @
                                                                       °C
Log Kow
                  2.84 - 2.98
                              Atm. M3/Mol (Measured)
                                                           4.28E -9
                                                                      (calc'd)
                       E
Henry's
                                                                Comments
Solubility in ...
                            1.42E
                                            @25.0 °C
                                   2
                                      ppm
Water
                                \mathbf{E}
                                            a
                                                   °C
Acetone
                                      ppm
                                E
                                                   °C
Acetonitrile
                                            6
                                      ppm
Benzene
                                E
                                                   °C
                                      ppm
                                                   °C
                                E
 Chloroform
                                      ppm
                                E
                                                   °C
Ethanol
                                           . @
                                      ppm
                                                   °C
                                Ē
Methanol
                                      ppm
                                                   °C
                                E
 Toluene
                                      ppm
                                                   °Ċ
                                E
                                            @
Xylene
                                      ppm
                                E
                                                   °C
                                            6
                                      ppm
                                Ė
                                                   °C
                                      ppm
Hydrolysis (161-1)
 Hq [8]
        5.0:STABLE
 [S] pH
         7.0:STABLE
 [S] pH
         9.0:STABLE
 [ ] pH
```

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Hq []

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Photolysis (161-2, -3, -4) [V] Water: STABLE [] : [] :
[V] Soil : 143 DAYS
Aerobic Soil Metabolism (162-1) [S] 61-71 DAYS IN SILT LOAM, BUT [] DEGRADATION RATES SLOWED AFTER [] INCREASING AGING AND AFTER 240 [] DAYS 34-37% OF PARENT COMPOUND [] WAS STILL PRESENT. [] []
Anaerobic Soil Metabolism (162-2) [S] NO APPRECIABLE DEGRADATION IN [] 62 DAYS. [] [] [] [] [] [] []
Anaerobic Aquatic Metabolism (162-3) [] [] [] [] [] [] [] []
Aerobic Aquatic Metabolism (162-4) [] [] [] [] [] [] [] []

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Soil Partition Coefficient (Kd) (163-1) [] Sd Si Cl %OM Kads Kdes [V] 38 34 28 3.42 4.44 1.19 [V] 98 0 2 0.95 1.46 0.47 [V] 16 58 26 2.05 7.08 4.18 [V] 70 20 10 2.90 9.77 4.08 [V] 32 14 54 0.44 2.39 0.58	
Soil Rf Factors (163-1) [S] MOST OF ACTIV. RECOVERED FROM [] Silm COLUMNS (AEROBICALLY [] AGED SAMPLES) LEACHED WITH [] 20" WATER WAS PRESENT AS [] PARENT IN TOP 10 CM SOIL. []	
Laboratory Volatility (163-2) [] []	
Field Volatility (163-3) [] []	
Terrestrial Field Dissipation (164-1) [] [] [] [] [] [] [] [] [] []	
Aquatic Dissipation (164-2) [] [] [] [] [] [] []	
Forestry Dissipation (164-3) [] []	

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Long-Term Soil Dissipation (164-5) [] []
Accumulation in Rotational Crops, Confined (165-1) [] []
Accumulation in Rotational Crops, Field (165-2) [] []
Accumulation in Irrigated Crops (165-3) [] []
Bioaccumulation in Fish (165-4) [] []
Bioaccumulation in Non-Target Organisms (165-5) [] []
Ground Water Monitoring, Prospective (166-1) [] [] [] []
Ground Water Monitoring, Small Scale Retrospective (166-2) [] [] [] []
Ground Water Monitoring, Large Scale Retrospective (166-3) [] [] [] []
Ground Water Monitoring, Miscellaneous Data (158.75) [] [] []

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Field Runoff (167-1)

Surface Water Monitoring (167-2) [] [] [] []
Spray Drift, Droplet Spectrum (201-1) [] [] [] []
Spray Drift, Field Evaluation (202-1) [] [] [] [] []
Degradation Products
1,2,4-triazole (= 15% from aerobic soil metabolism, and this compound is very mobile)

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Comments

References: Writer :